

AMENDMENTS TO THE CLAIMS

Please cancel claims 2 and 9-15, without prejudice or admission, so that the pending claims are as follows:

1. (Previously presented) A biologically pure *Dehalococcoides* isolate capable of using, as a metabolic electron acceptor, at least one compound selected from the group consisting of *trans*-dichloroethene and vinyl chloride.

2. (Canceled).

3. (Previously presented) A method of remediating a substrate comprising a halogenated compound,

wherein said method comprises inoculating said substrate with an effective amount of a *Dehalococcoides* isolate capable of using, as a metabolic electron acceptor, at least one compound selected from the group consisting of *trans*-dichloroethene and vinyl chloride.

4. (Previously presented). The method of claim 3, wherein said halogenated compound is selected from the group consisting of chloroethenes, vinyl halides, and haloalkanes.

5. (Previously presented) The method of claim 4 wherein said halogenated compound is a dichloroethene.

6. (Previously presented) The method of claim 5 wherein said dichloroethene (DCE) is selected from the group consisting of *cis*-DCE, *trans*-DCE, and 1,1-DCE.

7. (Previously presented) The method of claim 4 wherein said halogenated compound is a vinyl-halide.

8. (Previously presented) The method of claim 7 wherein said vinyl-halide is selected from the group consisting of vinyl chloride and vinyl bromide.

9-15. (Canceled).

16. (Previously presented) The method of claim 8 wherein the vinyl-halide is vinyl chloride.

17. (Previously presented) The biologically pure *Dehalococcoides* isolate of claim 1, wherein the *Dehalococcoides* isolate is capable of using at least *trans*-dichloroethene as a metabolic electron acceptor.

18. (Previously presented) The biologically pure *Dehalococcoides* isolate of claim 1, wherein the *Dehalococcoides* isolate is capable of using at least vinyl chloride as a metabolic electron acceptor.

19. (Previously presented) The biologically pure *Dehalococcoides* isolate of claim 1, wherein the *Dehalococcoides* isolate is additionally capable of using, as a metabolic electron acceptor, a dichloroethene (DCE) selected from the group consisting of *cis*-DCE and 1,1-DCE.

20. (Previously presented) The biologically pure *Dehalococcoides* isolate of claim 1, wherein the *Dehalococcoides* isolate is additionally capable of using vinyl bromide as a metabolic electron acceptor.

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